

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Ticona Polymers, Inc.

AUTHORIZING THE OPERATION OF
Bishop Facility
SH/TO/TF Unit
Industrial Organic Chemicals

LOCATED AT
Nueces County, Texas
Latitude 27° 34' 3" Longitude 97° 49' 31"
Regulated Entity Number: RN101625721

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O2017 Issuance Date: May 2, 2016

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts F, G, and H, as identified in the attached Applicable Requirements Summary table, are subject to 30 TAC Chapter 113, Subchapter C, §113.110, §113.120, and §113.130, respectively, which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed either before or after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
 - (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the

air emission source or enclosed facility is not operating for the entire quarter.

- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions

Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(b)(1).
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)

- E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
7. For facilities where total annual benzene quantity from waste is greater than or equal to 1 megagram per year and less than 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
 - A. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(4)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - B. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - C. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.357(a), and (c) (relating to Reporting Requirements)
 8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
 9. For the chemical manufacturing process specified in 40 CFR Part 63, Subpart F, the permit holder shall comply with 40 CFR § 63.103(a) (relating to General Compliance, Reporting, and Recordkeeping Provisions) (Title 30 TAC Chapter 113, Subchapter C, § 113.110 incorporated by reference).
 10. For process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.1106(b), the permit holder shall comply with the requirements of 40 CFR § 63.105(b) - (e) (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.560 incorporated by reference).
 11. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
 12. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

Additional Monitoring Requirements

13. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

14. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
15. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
16. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

17. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
18. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

19. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

20. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. The permit holder shall comply with 40 CFR Part 82, Subpart A for controlling the production, transformation, destruction, export or import of a controlled (ozone-depleting) substance or product as specified in 40 CFR § 82.1 - § 82.13 and the applicable Part 82 Appendices.
 - B. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.
 - C. The permit holder shall comply with 40 CFR Part 82, Subpart A, § 82.13 related to recordkeeping and reporting requirements for the production and consumption of ozone depleting substances.

Permit Location

21. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

22. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (§ 122.144), Reporting Terms and Conditions (§ 122.145), and Compliance Certification Terms and Conditions (§ 122.146) continue to apply.

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------------------------------|---|------------------|--|-------------------------|
| FU-DIOX | Fugitive Emission Units | N/A | 60VV-1 | 40 CFR Part 60, Subpart VV | No changing attributes. |
| FU-DIOX | Fugitive Emission Units | N/A | 63H-1 | 40 CFR Part 63, Subpart H | No changing attributes. |
| GRP- CONDENSORS | Chemical Manufacturing Process | HE-30148, HE-30150, HE-30153, HE-30154, HE-30155, HE-30170 | 63F-1 | 40 CFR Part 63, Subpart F | No changing attributes. |
| GRP-DISTILL | Distillation Operations | T-30014, T-30016, T-30018 | 60NNN-1 | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| GRP- FUGITIVES | Fugitive Emission Units | TF-FUG, TOX-FUG, TOXII-FUG | 61V-1 | 40 CFR Part 61, Subpart V | No changing attributes. |
| GRP-TANKS1 | Storage Tanks/Vessels | V-1063A, V-1660A, V-1661A, V-1839A, V-1840A | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS1 | Storage Tanks/Vessels | V-1063A, V-1660A, V-1661A, V-1839A, V-1840A | 60Kb-1 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| GRP-TANKS2 | Storage Tanks/Vessels | V-1069, V-1070, V-1071, V-30488 | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS3 | Storage Tanks/Vessels | V-1059, V-1060, V-1065, V-1975 | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS4 | Storage Tanks/Vessels | V-1067, V-1072, V-1491, V-1492, V-1493 | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS5 | Storage Tanks/Vessels | V-1666, V-1667, V-1668, V-1993, V-1994 | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS6 | Storage Tanks/Vessels | V-1058, V-1064, V-30408 | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-TANKS6 | Storage Tanks/Vessels | V-1058, V-1064, V-30408 | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--|------------------|--|-------------------------|
| GRP-VENTS1 | Emission Points/ Stationary Vents/ Process Vents | C-30158, C-30159, C-547, MC-30094, MD-102, MD-116, MD-30013, MG-30029, MJ-133, MJ-30044, MJ-30045, MJ-30049, MJ-30052, MJ-30053, MJ-30054, MJ-48, MJ-58, MS-1103, MS-1390, MS-30695, MS-30696, MS-30847, MS-30987, MS-31240, MS-911, QC-1, QC-1621, QC-2, QC-30010, QC-30011, QC-30013, T-242, T-249, T-30000, T-30008, T-30010, T-30011, T-30012, T-30017A, T-30020, T-30021, T-30022, T-30029, T-302A, T-305, T-406, T-408, T-410, V-1057, V-1066, V-1068, V-1076, V-1084, V-1140, V-1141, V-1143, V-1145, V-1150, V-1644, V-1645, V-1647, V-1648, V-1650, V-1656, V-1657, V-1658, V-1663, V-1694, V-1808, V-1971, V-1977, V-1981, V-2272, V-30181, V-30188, V-30193, V-30194, V-30196, V-30197, V-30198, V-30200, V-30201, V-30430, V-30436, V-30489, V-30535, V-30593 | 115B-1 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| GRP-VENTS2 | Emission Points/ Stationary Vents/ Process Vents | T-30009, T-412, V-30547 | 115B-1 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| GRP-VENTS3 | Emission Points/ Stationary Vents/ Process Vents | S-4, TF-1 | 115B-1 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|-----------------------|------------------|--|-------------------------|
| GRP-VENTS3 | Emission Points/ Stationary Vents/ Process Vents | S-4, TF-1 | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| GRP-VENTS4 | Emission Points/ Stationary Vents/ Process Vents | SH-PPH, SH-PPR | 115B-1 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| SLOPLD | Loading/ Unloading Operations | N/A | 115C-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| T-286 | Distillation Operations | N/A | 60NNN-1 | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| TF TOLOAD | Emission Points/ Stationary Vents/ Process Vents | N/A | 115B-1 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| V-1688 | Storage Tanks/Vessels | N/A | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| V-30403 | Storage Tanks/Vessels | N/A | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| V-30403UNL | Loading/ Unloading Operations | N/A | 115C-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| V-30403UNL | Loading/ Unloading Operations | N/A | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|---|--|
| FU-DIOX | EU | 60VV-1 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-2(b)(1) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-2(a)(2) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for pumps in light liquid service, a leak is detected. | § 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-2(a)(1) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FU-DIOX | EU | 60VV-1 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c). | § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|--|
| FU-DIOX | EU | 60VV-1 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-7(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for valves in gas/vapor service and in light liquid service, a leak is detected. | § 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FU-DIOX | EU | 60VV-1 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k) | For flanges and other connectors, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FU-DIOX | EU | 60VV-1 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-10(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-10(m) § 60.486(k) | Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to | § 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|--|
| | | | | | | an exit concentration of 20 parts per million by volume, whichever is less stringent. | | | |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.165 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Pressure relief device in gas/vapor service. §63.165(a)-(d) | [G]§ 63.165 [G]§ 63.180(b) [G]§ 63.180(c) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(f) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Pressure relief devices in liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | § 63.172(b) § 63.172(e) [G]§ 63.172(h) § 63.172(m) | Vapor recovery systems shall be designed and operated to recover the organic HAP emissions or VOC emissions vented to them with an efficiency of 95 percent or greater. | § 63.172(e) [G]§ 63.172(h) [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(g) § 63.181(g)(1)(i) § 63.181(g)(1)(ii) § 63.181(g)(1)(iv) [G]§ 63.181(g)(2) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.174 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Connectors in gas/vapor service and in light liquid service. §63.174(a)-(j) | [G]§ 63.174 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|--|--|
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | § 63.172(a) [G]§ 63.172(h) § 63.172(i) § 63.172(m) | Owners/operators of closed-vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section, except as provided in §63.162(b). | [G]§ 63.172(f)(1) [G]§ 63.172(f)(2) § 63.172(g) [G]§ 63.172(h) [G]§ 63.172(k) [G]§ 63.172(l) [G]§ 63.180(b) [G]§ 63.180(d) | [G]§ 63.172(k) [G]§ 63.172(l) § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(g) § 63.181(g)(1)(i) § 63.181(g)(1)(ii) [G]§ 63.181(g)(2) [G]§ 63.181(g)(3) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.163 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.176 | Standards: Pumps in light liquid service. §63.163(a)-(j) | [G]§ 63.163 [G]§ 63.176 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FU-DIOX | EU | 63H-1 | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.168 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175 | Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j) | [G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| GRP-CONDENSORS | PRO | 63F-1 | 112(B) HAPS | 40 CFR Part 63, Subpart F | § 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) | Except as provided in paragraphs (b)(4) and (c) of this section, the | § 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) | [G]§ 63.103(c) [G]§ 63.105(b) § 63.105(c) | § 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|------------------------------|----------------------------|---------------|-----------|---------------------------------------|--|--|--|---|--|
| | | | | | § 63.105(d) | provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria. | [G]§ 63.103(b)(5) § 63.103(b)(6) | § 63.105(e) | |
| GRP-DISTILL | EP | 60NNN-1 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.660(c)(5) | Each affected facility, in a process unit of total design capacity < 1 gigagram/yr for all chemicals produced in the unit, is exempt from this subpart except for § 60.665(j), (l)(6) and (n). | § 60.665(l)(6) | § 60.665(j) | § 60.665(l) § 60.665(l)(6) § 60.665(n) |
| GRP-FUGITIVES | EU | 61V-1 | VHAP | 40 CFR Part 61, Subpart V | [G]§ 61.242-4 § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 | Comply with standards for pressure relief devices in gas/vapor service. §61.242-4(a)-(c) | [G]§ 61.242-4 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) | [G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) | [G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) |
| GRP-FUGITIVES | EU | 61V-1 | VHAP | 40 CFR Part 61, Subpart V | [G]§ 61.242-7 § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.243-1 [G]§ 61.243-2 | Comply with standards for valves. §61.242-7(a)-(h) | [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) | [G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) | [G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) |
| GRP-FUGITIVES | EU | 61V-1 | VHAP | 40 CFR Part 61, Subpart V | [G]§ 61.242-8 § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 | Comply with standards for pressure relief devices in liquid service. § 61.242-8(a)-(d) | [G]§ 61.242-8 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d) | [G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) | [G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) |
| GRP-FUGITIVES | EU | 61V-1 | VHAP | 40 CFR Part 61, Subpart V | [G]§ 61.242-8 § 61.242-1(a) | Comply with standards for flanges and other | [G]§ 61.242-8 [G]§ 61.245(b) | [G]§ 61.246(a) [G]§ 61.246(b) | [G]§ 61.247(a) [G]§ 61.247(b) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|--|
| | | | | | § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 | connectors. § 61.242-8(a)-(d) | [G]§ 61.245(c) [G]§ 61.245(d) | [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) | § 61.247(c) [G]§ 61.247(e) |
| GRP-TANKS1 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |
| GRP-TANKS1 | EU | 60Kb-1 | VOC | 40 CFR Part 60, Subpart Kb | [G]§ 60.112b(a)(3) | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii). | [G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary | § 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b) | [G]§ 60.113b(c)(1) § 60.115b |
| GRP-TANKS2 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |
| GRP-TANKS3 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|--|--|
| GRP-TANKS4 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |
| GRP-TANKS5 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |
| GRP-TANKS6 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(4) § 115.118(b)(5) | None |
| GRP-TANKS6 | EU | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(a)(3) | Group 2 tanks not using emissions averaging as prescribed by §63.150 shall use record keeping methods in §63.123(a). Not required to comply with §63.119 to §63.123. | None | § 63.123(a) | § 63.152(c)(4)(iii) |
| GRP-VENTS1 | EP | 115B-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour | [G]§ 115.125 § 115.126(2) § 115.126(3)(B) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|---|
| | | | | | | period is exempt from § 115.121(b). | | | |
| GRP-VENTS2 | EP | 115B-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(B) § 115.127(b)(2) | A vent gas stream with a concentration of the VOC or classes of compounds specified in § 115.121(b)(2)-(3) of this title < 30,000 ppmv is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) § 115.126(3)(C) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C) | None |
| GRP-VENTS3 | EP | 115B-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) § 115.126(3)(B) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B) | None |
| GRP-VENTS3 | EP | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.113(e) [G]§ 63.115(f) | The owner or operator of a Group 2 process vent with a TRE index > 4.0 shall maintain a TRE index value > 4.0, comply with the sections as specified. | [G]§ 63.115(a) [G]§ 63.115(b) [G]§ 63.115(c) [G]§ 63.115(d) § 63.115(e) § 63.115(e)(1) [G]§ 63.115(f) | § 63.117(b) [G]§ 63.118(c) [G]§ 63.152(a) | § 63.115(e)(2) [G]§ 63.118(g) [G]§ 63.118(h) [G]§ 63.118(k) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|--|---|--|
| | | | | | | | | | § 63.152(c)(4)(i) § 63.152(c)(4)(ii) § 63.152(c)(4)(iii) |
| GRP-VENTS4 | EP | 115B-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2) and (3) of this title equal to or less than 100 pounds in any continuous 24-hour period is exempt from the requirements of §115.121(b) of this title. | [G]§ 115.125 § 115.126(2) § 115.126(3)(B) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B) | None |
| SLOPLD | EU | 115C-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(b)(1) § 115.212(b)(1)(A) § 115.212(b)(2) § 115.212(b)(3)(A) § 115.212(b)(3)(A)(ii) § 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.212(b)(3)(D) § 115.212(b)(3)(E) § 115.214(b)(1)(B) § 115.214(b)(1)(C) | In Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis, and Victoria Counties, vapors caused by the loading of VOC with a TVP greater than or equal to 1.5 psia must be controlled using one of the methods specified in §115.212(b)(1)(A)-(C). | § 115.212(b)(3)(B) [G]§ 115.212(b)(3)(C) § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(A)(ii) § 115.214(b)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(8) § 115.215(9) | § 115.216 § 115.216(1) § 115.216(1)(C) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| T-286 | EP | 60NNN-1 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.660(c)(4) § 60.662(c) | Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l). | [G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2) | [G]§ 60.665(h) § 60.665(p) | § 60.664(g)(1) § 60.665(l) § 60.665(l)(7) § 60.665(p) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|--|--|--|--|--|
| TF TOLOAD | EP | 115B-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) § 115.126(3)(B) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B) | None |
| V-1688 | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.112(b)(2) § 115.112(b)(2)(A) § 115.112(b)(2)(B) § 115.112(b)(2)(C) § 115.112(b)(2)(D) § 115.112(b)(2)(E) § 115.114(b)(1)(A) | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | § 115.114(b)(1)(A) [G]§ 115.117 ** See Periodic Monitoring Summary | § 115.118(b)(2) § 115.118(b)(4) § 115.118(b)(5) | § 115.114(b)(1)(B) |
| V-30403 | EU | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(a)(3) | Group 2 tanks not using emissions averaging as prescribed by §63.150 shall use record keeping methods in §63.123(a). Not required to comply with §63.119 to §63.123. | None | § 63.123(a) | § 63.152(c)(4)(iii) |
| V-30403UNL | EU | 115C-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|-------------------------------------|--|--|
| V-30403UNL | EU | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.126(c) | For each Group 2 transfer rack, maintain records as required in § 63.130(f). No other provisions for transfer racks apply to the Group 2 transfer rack. | None | § 63.130(f) § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(i) § 63.130(f)(3)(ii) | § 63.152(c)(4)(iii) |

Additional Monitoring Requirements

Periodic Monitoring Summary 28

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Recirculation rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum water recirculation rate shall not be below 30 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the water recirculation rate. Establish a minimum water recirculation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Temperature | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The maximum temperature of the recirculation water shall not exceed 110 degrees F. | |
| <p>Periodic Monitoring Text: Measure and record the recirculation water temperature. Establish a maximum recirculation water temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Addition rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum fresh water addition rate shall not be below 0.80 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water addition rate. Establish a minimum fresh water addition rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: N/A | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60Kb-1 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: Maximum VOC concentration shall not exceed 500 ppm. | |
| Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: N/A | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60Kb-1 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: The presence of any defect shall be a deviation. | |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60Kb-1 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Temperature | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The maximum temperature of the recirculation water shall not exceed 110 degrees F. | |
| Periodic Monitoring Text: Measure and record the recirculation water temperature. Establish a maximum recirculation water temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60Kb-1 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Recirculation rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum water recirculation rate shall not be below 30 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the water recirculation rate. Establish a minimum water recirculation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS1 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60Kb-1 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Addition rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum fresh water addition rate shall not be below 0.80 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water addition rate. Establish a minimum fresh water addition rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS2 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Recirculation rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum water recirculation rate shall not be below 30 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the water recirculation rate. Establish a minimum water recirculation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP-TANKS2 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Temperature | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The maximum temperature of the recirculation water shall not exceed 110 degrees F. | |
| Periodic Monitoring Text: Measure and record the recirculation water temperature. Establish a maximum recirculation water temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS2 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Addition rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum fresh water addition rate shall not be below 0.80 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water addition rate. Establish a minimum fresh water addition rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS3 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Recirculation rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum water recirculation rate shall not be below 30 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the water recirculation rate. Establish a minimum water recirculation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP-TANKS3 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Temperature | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The maximum temperature of the recirculation water shall not exceed 110 degrees F. | |
| Periodic Monitoring Text: Measure and record the recirculation water temperature. Establish a maximum recirculation water temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS3 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Addition rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum fresh water addition rate shall not be below 0.80 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water addition rate. Establish a minimum fresh water addition rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|--------------------------------------|
| ID No.: GRP-TANKS4 | |
| Control Device ID No.: N/A | Control Device Type: Unknown CD Type |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Structural Integrity of the Pipe | |
| Minimum Frequency: Emptied and degassed | |
| Averaging Period: n/a | |
| Deviation Limit: It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel. | |
| Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|--------------------------------------|
| ID No.: GRP-TANKS4 | |
| Control Device ID No.: N/A | Control Device Type: Unknown CD Type |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Record of Tank Construction Specifications | |
| Minimum Frequency: n/a | |
| Averaging Period: n/a | |
| Deviation Limit: Keep a record of tank construction specifications. | |
| <p>Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS5 | |
| Control Device ID No.: T-30020 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Flow rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: Hourly | |
| Deviation Limit: The minimum fresh water flow rate shall not be below 0.86 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water flow rate. Establish a minimum fresh water flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS6 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Recirculation rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum water recirculation rate shall not be below 30 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the water recirculation rate. Establish a minimum water recirculation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP-TANKS6 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Temperature | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The maximum temperature of the recirculation water shall not exceed 110 degrees F. | |
| Periodic Monitoring Text: Measure and record the recirculation water temperature. Establish a maximum recirculation water temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data above the maximum limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: GRP-TANKS6 | |
| Control Device ID No.: T-412 | Control Device Type: Wet Scrubber |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Addition rate | |
| Minimum Frequency: Continuous | |
| Averaging Period: n/a | |
| Deviation Limit: The minimum fresh water addition rate shall not be below 0.80 gpm. | |
| <p>Periodic Monitoring Text: Measure and record the fresh water addition rate. Establish a minimum fresh water addition rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|--------------------------------------|
| ID No.: V-1688 | |
| Control Device ID No.: N/A | Control Device Type: Unknown CD Type |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Storage of VOCs | SOP Index No.: 115B-1 |
| Pollutant: VOC | Main Standard: § 115.112(b)(1) |
| Monitoring Information | |
| Indicator: Internal Floating Roof | |
| Minimum Frequency: annually | |
| Averaging Period: n/a | |
| Deviation Limit: Any defect found shall be considered a deviation. | |
| <p>Periodic Monitoring Text: Visually inspect and record the inspection of the internal floating roof to ensure: the roof is floating on the surface of the VOC and, liquid has not accumulated on the internal floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. Any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the internal floating roof, the seals are detached, or if there are holes or tears in the seal fabric shall be considered and reported as a deviation.</p> | |

Permit Shield

Permit Shield 50

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|--|-------------------------------------|--|
| ID No. | Group/Inclusive Units | | |
| GRP-REACTORS | MS-31433, MS-31434, T-30013 | 40 CFR Part 60, Subpart III | Reactor is not an affected unit. |
| GRP-REACTORS | MS-31433, MS-31434, T-30013 | 40 CFR Part 60, Subpart RRR | Reactor does not produce any of the chemicals listed in §60.707 as a product, co-product, by-product, or intermediate. |
| GRP-TANKS2 | V-1069, V-1070, V-1071, V-30488 | 40 CFR Part 60, Subpart Kb | Storage vessel capacity is less than 75m3. |
| GRP-TANKS3 | V-1059, V-1060, V-1065, V-1975 | 40 CFR Part 60, Subpart Kb | Storage vessel was constructed prior to and was not modified/reconstructed after 07/23/1984. |
| GRP-TANKS4 | V-1067, V-1072, V-1491, V-1492, V-1493 | 40 CFR Part 60, Subpart Kb | Storage vessel was constructed prior to and was not modified/reconstructed after 07/23/1984. |
| GRP-TANKS7 | V-1969, V-2001 | 30 TAC Chapter 115, Storage of VOCs | Storage tank stores a VOC with a TVP less than 1.0 psia. |
| GRP-TANKS7 | V-1969, V-2001 | 40 CFR Part 60, Subpart Kb | Storage vessel was constructed prior to and was not modified/reconstructed after 07/23/1984. |
| GRP-TANKS8 | V-1152, V-1155, V-1501, V-1655, V-1733, V-1736, V-1821, V-30191, V-30508, V-30509, V-30555, V-77 | 30 TAC Chapter 115, Storage of VOCs | Storage tank does not contain crude oil, condensate, or VOC. |
| GRP-TANKS8 | V-1152, V-1155, V-1501, V-1655, V-1733, V-1736, V-1821, V-30191, V-30508, V-30509, V-30555, V-77 | 40 CFR Part 60, Subpart Kb | Storage vessel does not store a VOL. |
| GRP-TANKS9 | V-30308, V-30400, V-30401, V-30402, V-30404, V-30405, V-30406, V-30407 | 30 TAC Chapter 115, Storage of VOCs | Storage vessel capacity is less than 1000 gallons. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|--|-------------------------------------|---|
| ID No. | Group/Inclusive Units | | |
| GRP-TANKS9 | V-30308, V-30400, V-30401, V-30402, V-30404, V-30405, V-30406, V-30407 | 40 CFR Part 60, Subpart Kb | Storage vessel capacity is less than 75m3. |
| GRP-TANKS9 | V-30308, V-30400, V-30401, V-30402, V-30404, V-30405, V-30406, V-30407 | 40 CFR Part 63, Subpart F | Storage vessel does not store any of the chemicals listed in §63.100(b). |
| GRP-TOWERS | CT-1, CT-2 | 40 CFR Part 63, Subpart Q | Cooling tower did not operate with chromium-based water treatment chemicals after 09/08/1994. |
| V-30403 | N/A | 30 TAC Chapter 115, Storage of VOCs | Storage tank stores a VOC with a TVP less than 1.0 psia. |
| V-30403 | N/A | 40 CFR Part 60, Subpart Kb | Storage tank has a capacity greater than or equal to 75 m3 but less than 151 m3 storing a liquid with a TVP less than 15.0 kPa. |

New Source Review Authorization References

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|--|-----------|
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| New Source Review Authorization References by Emission Unit | 54 |

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area. | |
|---|------------------------------|
| Authorization No.: 17910 | Issuance Date: 12/18/2012 |
| Authorization No.: 20222 | Issuance Date: 06/08/2016 |
| Authorization No.: 6091 | Issuance Date: 08/04/2008 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.124 | Version No./Date: 09/04/2000 |
| Number: 106.261 | Version No./Date: 11/01/2003 |
| Number: 106.262 | Version No./Date: 11/01/2003 |
| Number: 106.371 | Version No./Date: 09/04/2000 |
| Number: 106.472 | Version No./Date: 09/04/2000 |
| Number: 106.473 | Version No./Date: 09/04/2000 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|-------------------------------------|---------------------------------|
| C-30158 | NITROGEN BLOWER | 6091 |
| C-30159 | NITROGEN BLOWER | 6091 |
| C-547 | DRYER BLOWER | 6091 |
| CT-1 | COOLING TOWER | 17910 |
| CT-2 | COOLING TOWER | 20222 |
| FU-DIOX | DIOXOLANE FUGITIVES | 17910 |
| HE-30148 | REACTOR COLUMN OVERHEAD RECEIVER | 17910 |
| HE-30150 | STRIPPER COLUMN OVERHEAD CONDENSER | 17910 |
| HE-30153 | FINISHING COLUMN OVERHEAD CONDENSOR | 17910 |
| HE-30154 | ABSORBER REFLUX COOLER | 17910 |
| HE-30155 | FINISHING COLUMN PRODUCT | 17910 |
| HE-30170 | OVERHEAD SAMPLE CONDENSOR | 17910 |
| MC-30094 | CONVEYOR | 6091 |
| MD-102 | DRYER | 6091 |
| MD-116 | DRYER | 6091 |
| MD-30013 | DRYER | 6091 |
| MG-30029 | GRINDER | 6091 |
| MJ-133 | RECOVERY EVAPORATOR JET SYSTEM | 20222 |
| MJ-30044 | VACUUM JET | 20222 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| MJ-30045 | VACUUM JET | 20222 |
| MJ-30049 | EVAPORATOR VACUUM JET | 20222 |
| MJ-30052 | VACUUM JET | 20222 |
| MJ-30053 | VACUUM JET | 20222 |
| MJ-30054 | VACUUM JET | 20222 |
| MJ-48 | EVAPORATOR VACUUM JET | 20222 |
| MJ-58 | VACUUM JET | 20222 |
| MS-1103 | DRYER CYCLONE VAPOR SEPARATOR | 20222 |
| MS-1390 | DRYER CYCLONE | 20222 |
| MS-30695 | CENTRIFUGE | 20222 |
| MS-30696 | CENTRIFUGE | 20222 |
| MS-30847 | CENTRIFUGE | 6091 |
| MS-30987 | REACTOR VENT | 20222 |
| MS-31240 | DRYER VAPOR BOX | 20222 |
| MS-31433 | REACTOR | 6091 |
| MS-31434 | REACTOR | 6091 |
| MS-911 | CONDENSOR | 20222 |
| QC-1621 | RECOVERY EVAPORATOR | 20222 |
| QC-1 | CONDENSOR | 20222 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|---------------------------------------|--|
| QC-2 | CONDENSOR | 20222 |
| QC-30010 | QUENCH CONDENSOR JET EXHAUST | 20222 |
| QC-30011 | OVERHEAD EVAPORATOR | 20222 |
| QC-30013 | CONDENSOR | 20222 |
| S-4 | ETHYLENE GLYCOL STORAGE TANK VENT | 17910 |
| SH-PPH | PILOT PLANT HYDROLYSIS VENT | 106.124/09/04/2000 |
| SH-PPR | PILOT PLANT REACTION VENT | 106.124/09/04/2000 |
| SLOPLD | SLOP LOADING & UNLOADING | 20222 |
| T-242 | LIGHT ENDS COLUMN | 20222 |
| T-249 | FINISHING COLUMN OVERHEAD RECEIVER | 20222 |
| T-286 | DISTILLATION COLUMN | 106.261/11/01/2003, 106.262/11/01/2003 |
| T-30000 | FLUID BED VENT SCRUBBER | 20222 |
| T-30008 | REACTOR COLUMN OVERHEAD RECEIVER VENT | 20222 |
| T-30009 | TANK VENT SCRUBBER | 20222 |
| T-30010 | FORMALDEHYDE RECOVERY COLUMN | 20222 |
| T-30011 | LIGHT ENDS COLUMN | 20222 |
| T-30012 | BENZENE SCRUBBER | 20222 |
| T-30013 | REACTOR COLUMN | 17910 |
| T-30014 | STRIPPER COLUMN | 17910 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|---------------------------------------|---------------------------------|
| T-30016 | FINISHING COLUMN | 17910 |
| T-30017A | BENZENE VENT SCRUBBER | 20222 |
| T-30018 | ABSORBER COLUMN | 17910 |
| T-30020 | TRIOXANE RUN DOWN SCRUBBER | 20222 |
| T-30021 | OVERHEAD SCRUBBER | 20222 |
| T-30022 | MEOH RECOVERY COLUMN | 20222 |
| T-30029 | RECOVERY COLUMN | 20222 |
| T-302A | REACTOR COLUMN | 20222 |
| T-305 | TRIOXANE FIRST STAGE FINISHING COLUMN | 20222 |
| T-406 | DRYER GAS SCRUBBER | 20222 |
| T-408 | VENT SCRUBBER | 20222 |
| T-410 | DRYER GAS SCRUBBER | 20222 |
| T-412 | TANK VENT SCRUBBER | 20222 |
| TF TOLOAD | PACKAGING LOADING FACILITY | 20222 |
| TF-1 | SCRUBBER VENT | 17910 |
| TF-FUG | TANK FARM AREA FUGITIVES | 20222 |
| TOX-FUG | MANUFACTURING FUGITIVES | 20222 |
| TOXII-FUG | MANUFACTURING FUGITIVES | 20222 |
| V-1057 | METHANOL SEAL FLUSH SURGE TANK | 6091 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|-------------------------------------|---------------------------------|
| V-1058 | FORMALDEHYDE STORAGE TANK | 17910 |
| V-1059 | METHANOL SLOP TANK | 20222 |
| V-1060 | SLOP TANK | 20222 |
| V-1063A | METHYL FORMATE STORAGE TANK | 20222 |
| V-1064 | FORMALDEHYDE STORAGE TANK | 17910 |
| V-1065 | HCHO / LIGHT ENDS SLOP STORAGE TANK | 20222 |
| V-1066 | OVERHEAD RECEIVER | 20222 |
| V-1067 | TOX RECEIVING & BLENDING TANK | 20222 |
| V-1068 | OVERHEAD RECEIVER | 20222 |
| V-1069 | METHANOL STORAGE TANK | 20222 |
| V-1070 | METHANOL STORAGE TANK | 20222 |
| V-1071 | METHANOL STORAGE TANK | 20222 |
| V-1072 | TRIETHYLAMINE FEED SURGE TANK | 20222 |
| V-1076 | TOX FEED TANK | 6091 |
| V-1084 | QUENCH RECEIVER SCRUBBER | 20222 |
| V-1140 | CONCENTRATOR | 20222 |
| V-1141 | RECOVERY COLUMN OVERHEAD RECEIVER | 20222 |
| V-1143 | OVERHEAD RECEIVER | 20222 |
| V-1145 | VACUUM JET RECEIVER | 20222 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--|---------------------------------|
| V-1150 | LIGHT END RECEIVER | 20222 |
| V-1152 | SULFURIC ACID STORAGE TANK | 20222 |
| V-1155 | NAOH RECEIVING & FEED TANK | 20222 |
| V-1491 | METHYLAL STORAGE TANK | 106.473/09/04/2000 |
| V-1492 | METHYLAL STORAGE TANK | 106.473/09/04/2000 |
| V-1493 | METHYLAL STORAGE TANK | 106.473/09/04/2000 |
| V-1501 | FORMALDEHYDE COLUMN / PHOSPHORIC ACID STORAGE TANK | 20222 |
| V-1644 | CONCENTRATOR / EVAPORATOR | 20222 |
| V-1645 | OVERHEAD PRODUCT RECEIVER | 20222 |
| V-1647 | RECOVERY EVAPORATOR | 20222 |
| V-1648 | RECOVERY EVAPORATOR / OVERHEAD PRODUCT RECEIVER | 20222 |
| V-1650 | VACUUM CONDENSATE RECEIVER | 20222 |
| V-1655 | SULFURIC ACID CHARGE DRUM | 20222 |
| V-1656 | TRIOXANE REACTOR | 20222 |
| V-1657 | REACTOR COLUMN OVERHEAD RECEIVER | 6091 |
| V-1658 | OVERHEAD RECEIVER | 6091 |
| V-1660A | MULTIPUROSE TANK / BENZENE STORAGE TANK | 20222 |
| V-1661A | BENZENE STORAGE TANK | 20222 |
| V-1663 | FINISHING COLUMN OVERHEAD RECEIVER | 6091 |

New Source Review Authorization References by Emissions Unit

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| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|---|---------------------------------|
| V-1666 | TRIOXANE STORAGE TANK | 20222 |
| V-1667 | TRIOXANE STORAGE TANK | 20222 |
| V-1668 | TRIOXANE STORAGE TANK | 20222 |
| V-1688 | SCRUBBER METHANOL FEED TANK | 20222 |
| V-1694 | SECOND CAKE TANK | 20222 |
| V-1733 | SULFURIC ACID STORAGE TANK | 20222 |
| V-1736 | SULFURIC ACID FEED TANK | 20222 |
| V-1808 | QUENCH CONDENSATE RECEIVER | 6091 |
| V-1821 | FORMALDEHYDE COLUMN / PHOSPHORIC ACID FEED TANK | 20222 |
| V-1839A | TRIOXANE / BENZENE STORAGE TANK | 20222 |
| V-1840A | MULTIPURPOSE / TRIOXANE / BENZENE STORAGE TANK | 20222 |
| V-1969 | BENZENE COLLECTION TANK | 20222 |
| V-1971 | METHANOL SLOP TANK | 6091 |
| V-1975 | METHANOL STORAGE TANK | 20222 |
| V-1977 | TOX FEED TANK | 6091 |
| V-1981 | SH-2 SECOND CENTRATE TANK | 6091 |
| V-1993 | TRIOXANE STORAGE TANK | 20222 |
| V-1994 | TRIOXANE STORAGE TANK | 20222 |
| V-2001 | TOX RECOVERY FEED TANK | 20222 |

New Source Review Authorization References by Emissions Unit

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| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|----------------------------------|---------------------------------|
| V-2272 | BENZENE RECEIVER | 6091 |
| V-30181 | RECOVERY EVAPORATOR KNOCKOUT POT | 6091 |
| V-30188 | ENTRAINMENT KNOCKOUT POT | 6091 |
| V-30191 | SULFURIC ACID WEIGHT POT | 20222 |
| V-30193 | SH-1 FIRST QUENCH TANK | 6091 |
| V-30194 | SH-1 SECOND QUENCH TANK | 6091 |
| V-30196 | SH-1 FIRST CENTRATE TANK | 6091 |
| V-30197 | FIRST PRECIPITATOR | 6091 |
| V-30198 | SECOND PRECIPITATOR | 6091 |
| V-30200 | SH-1 SECOND CENTRATE TANK | 6091 |
| V-30201 | SH-1 FINES SLURRY OLD SLOP TANK | 6091 |
| V-30308 | DIOXOLANE SURGE TANK | 17910 |
| V-30400 | DIOXOLANE STORAGE TANK | 17910 |
| V-30401 | DIOXOLANE STORAGE TANK | 17910 |
| V-30402 | DIOXOLANE STORAGE TANK | 17910 |
| V-30403 | ETHYLENE GLYCOL STORAGE TANK | 17910 |
| V-30403UNL | ETHYLENE GLYCOL UNLOADING | 17910 |
| V-30404 | DIOXOLANE STORAGE TANK | 17910 |
| V-30405 | DIOXOLANE STORAGE TANK | 17910 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--|---------------------------------|
| V-30406 | DIOXOLANE STORAGE TANK | 17910 |
| V-30407 | MSA BLOWCASE | 17910 |
| V-30408 | DIOXOLANE STORAGE TANK | 17910 |
| V-30430 | OVERHEAD RECEIVER | 20222 |
| V-30436 | NEW SLOP TANK | 6091 |
| V-30488 | METHYLAL STORAGE TANK | 20222 |
| V-30489 | METHYLAL FEED TANK | 20222 |
| V-30508 | PHOSPHORIC ACID FEED VESSEL | 20222 |
| V-30509 | PHOSPHORIC ACID STORAGE TANK | 20222 |
| V-30535 | REACTOR LATENT HEAT CONDENSATE RECEIVER | 6091 |
| V-30547 | 1,4 BUTANEDIOL DIGLYCIDYL ETHER STORAGE TANK | 6091 |
| V-30555 | SULFURIC ACID STORAGE TANK | 20222 |
| V-30593 | SH-2 FIRST QUENCH TANK | 6091 |
| V-77 | SULFURIC ACID STORAGE TANK | 20222 |

Appendix A

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| Acronym List | 64 |
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Acronym List

The following abbreviations or acronyms may be used in this permit:

| | |
|------------------------|---|
| ACFM | actual cubic feet per minute |
| AMOC | alternate means of control |
| ARP | Acid Rain Program |
| ASTM | American Society of Testing and Materials |
| B/PA | Beaumont/Port Arthur (nonattainment area) |
| CAM | Compliance Assurance Monitoring |
| CD | control device |
| COMS | continuous opacity monitoring system |
| CVS | closed-vent system |
| D/FW | Dallas/Fort Worth (nonattainment area) |
| DR | Designated Representative |
| ELP | El Paso (nonattainment area) |
| EP | emission point |
| EPA | U.S. Environmental Protection Agency |
| EU | emission unit |
| FCAA Amendments | Federal Clean Air Act Amendments |
| FOP | federal operating permit |
| GF | grandfathered |
| gr/100 scf | grains per 100 standard cubic feet |
| HAP | hazardous air pollutant |
| H/G/B | Houston/Galveston/Brazoria (nonattainment area) |
| H ₂ S | hydrogen sulfide |
| ID No. | identification number |
| lb/hr | pound(s) per hour |
| MMBtu/hr | Million British thermal units per hour |
| MRRT | monitoring, recordkeeping, reporting, and testing |
| NA | nonattainment |
| N/A | not applicable |
| NADB | National Allowance Data Base |
| NO _x | nitrogen oxides |
| NSPS | New Source Performance Standard (40 CFR Part 60) |
| NSR | New Source Review |
| ORIS | Office of Regulatory Information Systems |
| Pb | lead |
| PBR | Permit By Rule |
| PM | particulate matter |
| ppmv | parts per million by volume |
| PSD | prevention of significant deterioration |
| RO | Responsible Official |
| SO ₂ | sulfur dioxide |
| TCEQ | Texas Commission on Environmental Quality |
| TSP | total suspended particulate |
| TVP | true vapor pressure |
| U.S.C. | United States Code |
| VOC | volatile organic compound |